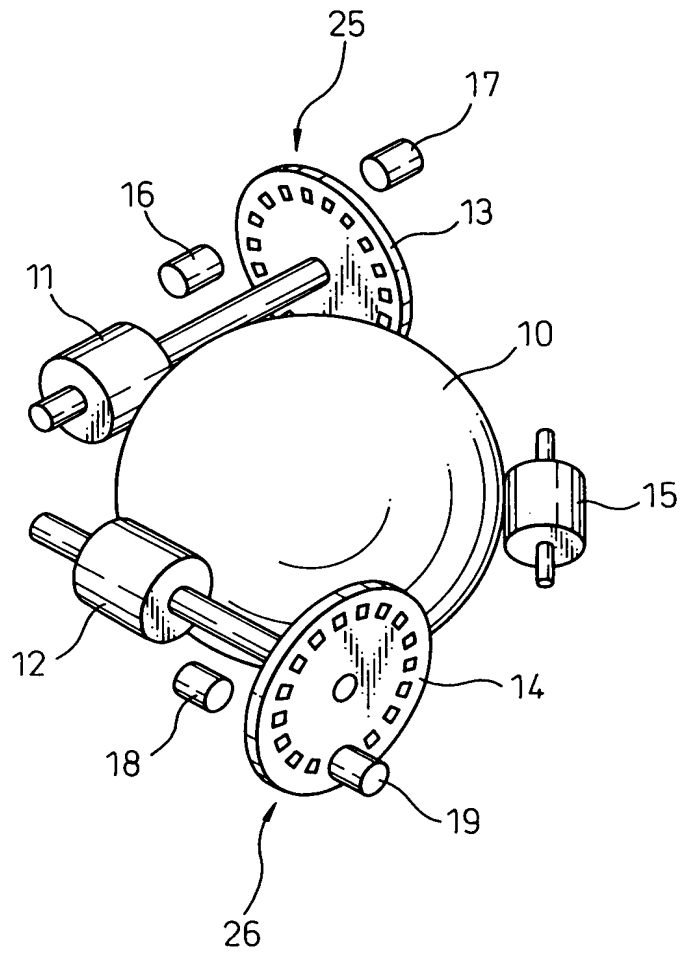


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Fig. 1



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Fig. 2

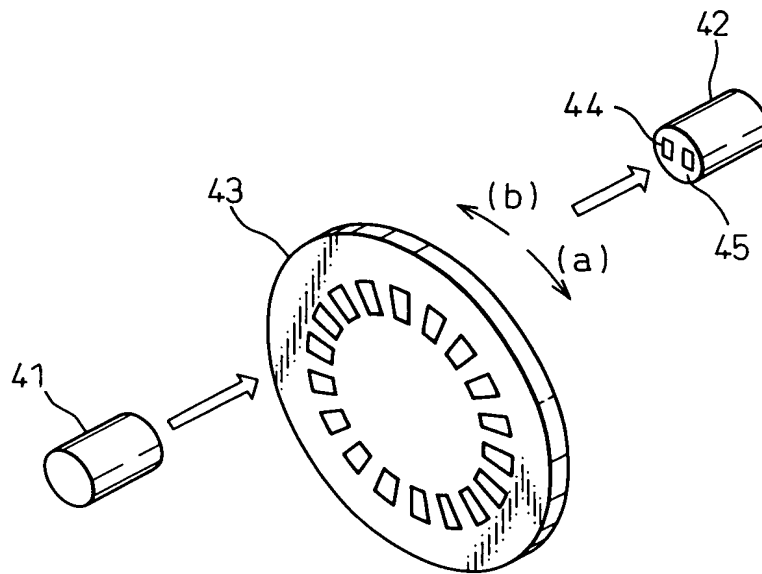
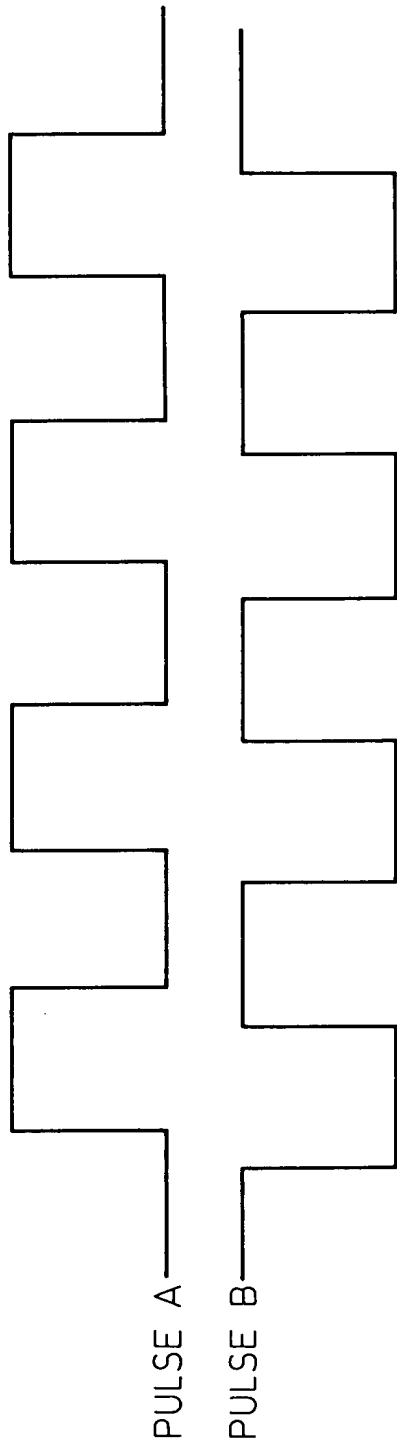


Fig. 3A



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Fig. 3B

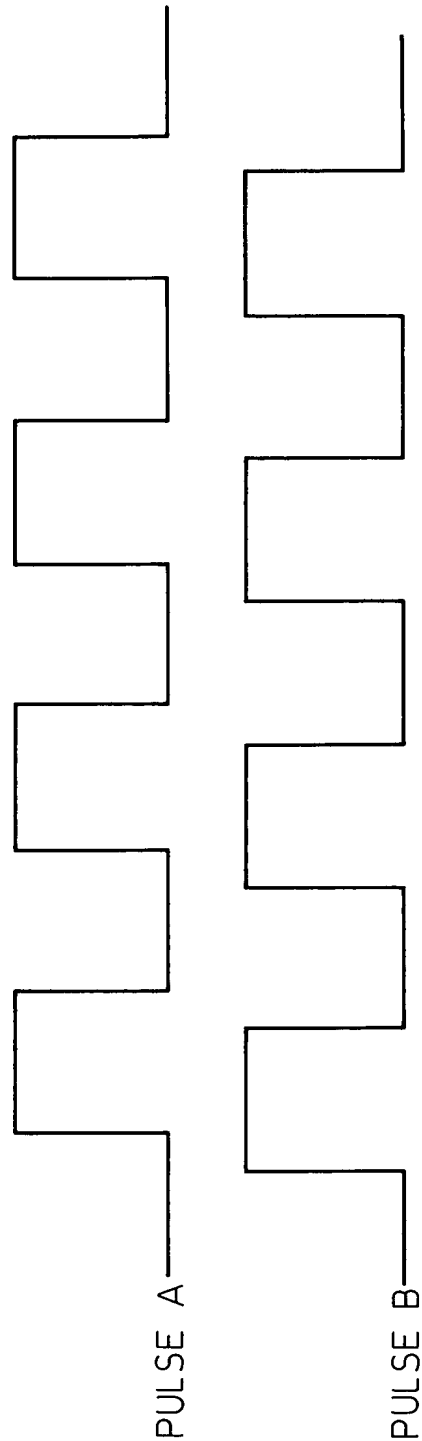


Fig. 4A

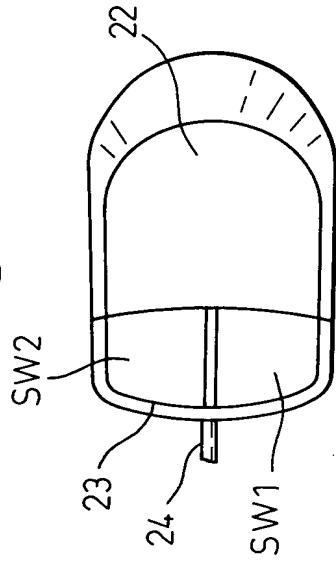


Fig. 4B

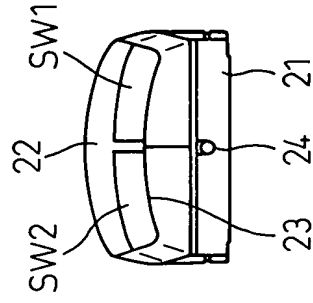


Fig. 4C

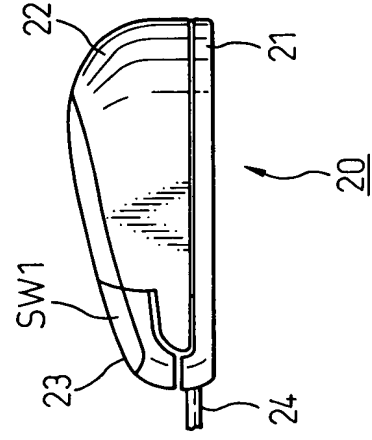


Fig. 4D

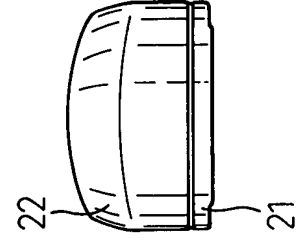


Fig. 5

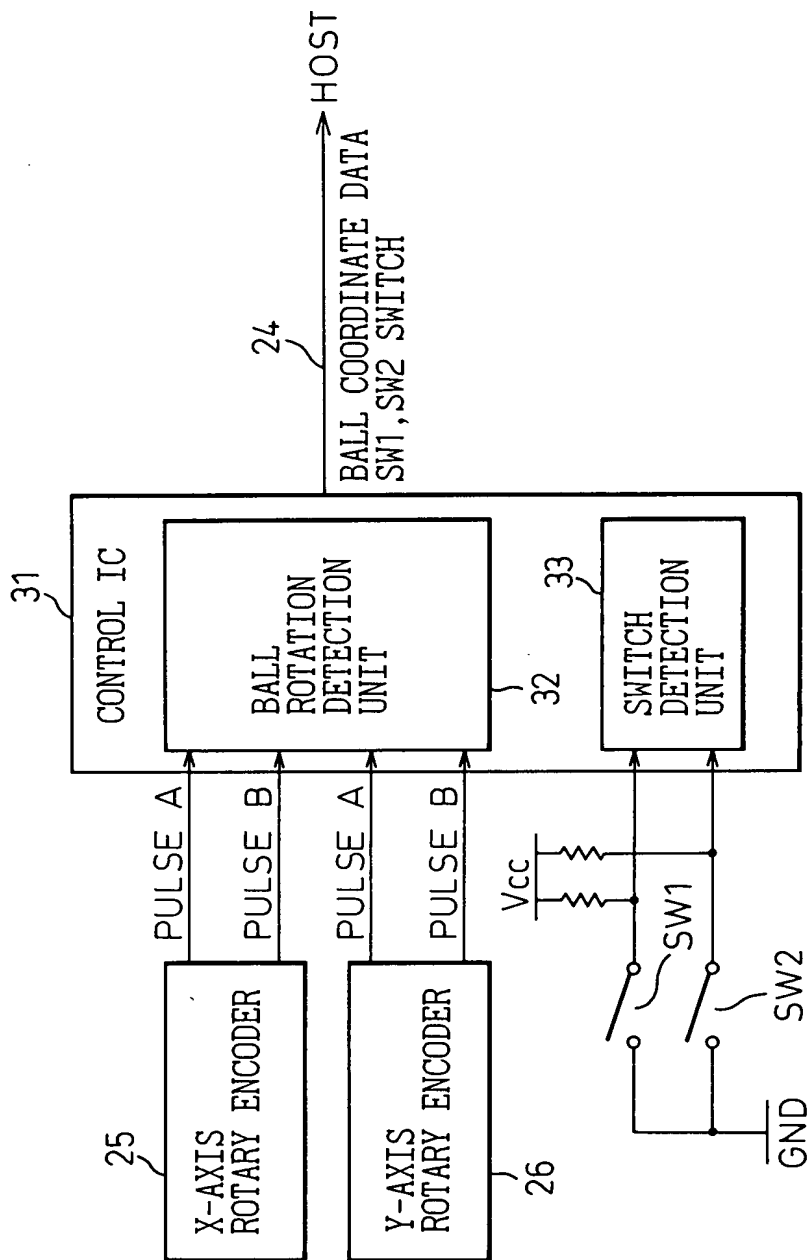


Fig. 6A

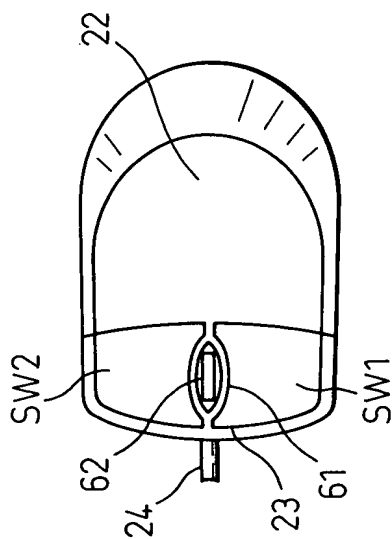


Fig. 6B

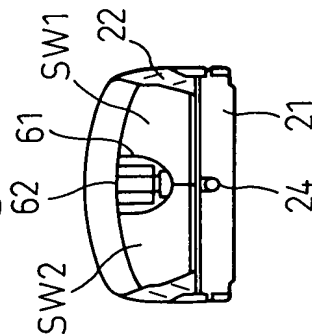


Fig. 6C

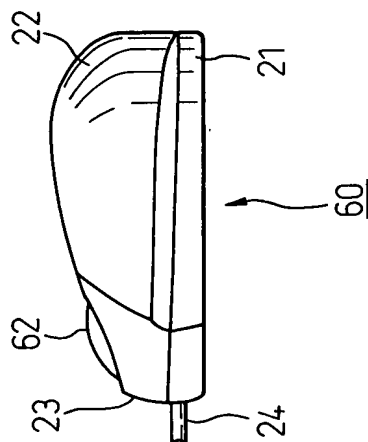


Fig. 6D

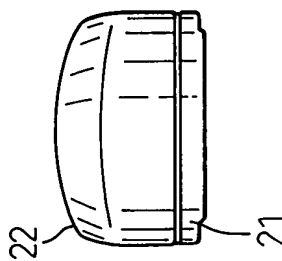


Fig. 7

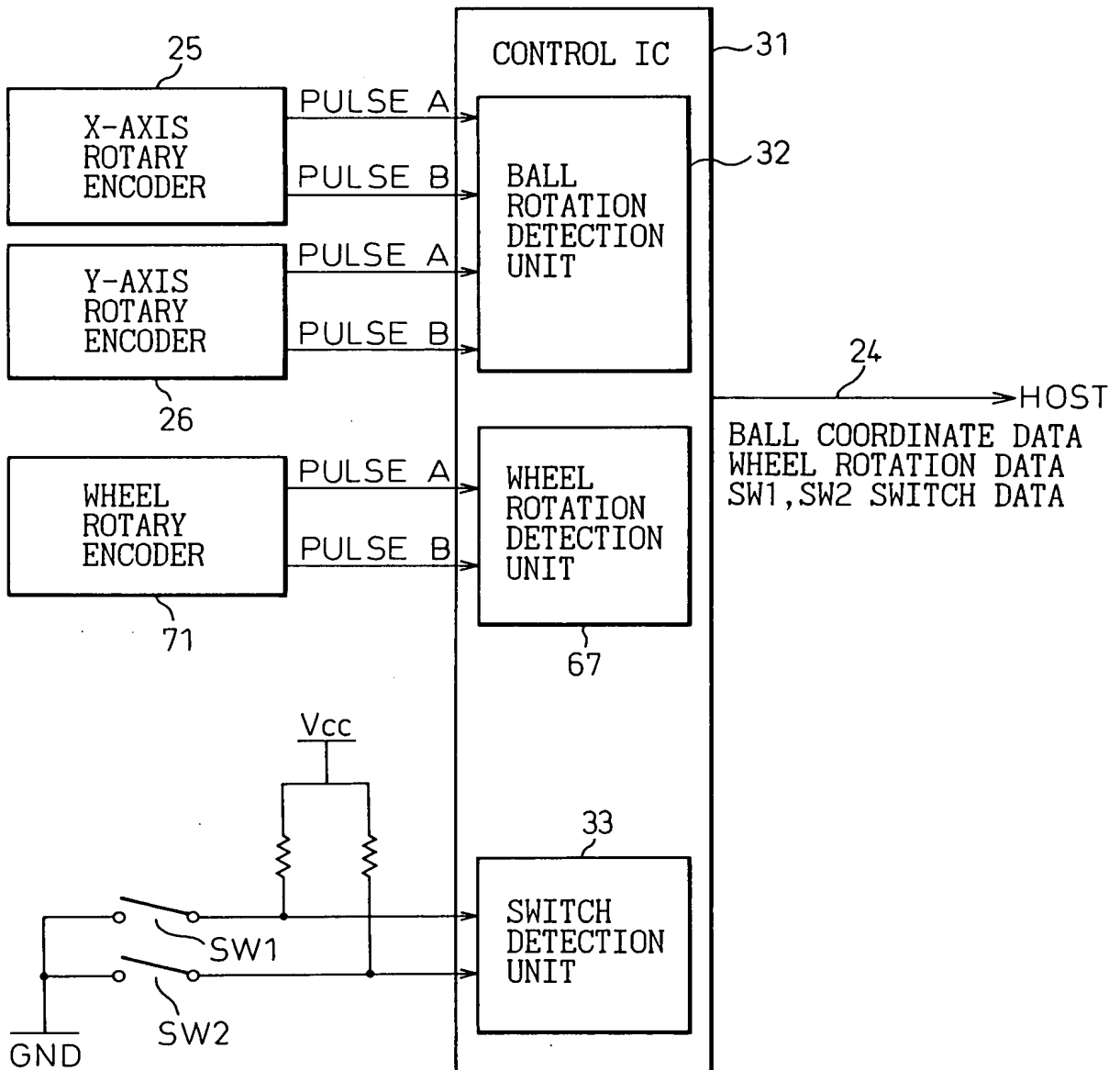


Fig. 8

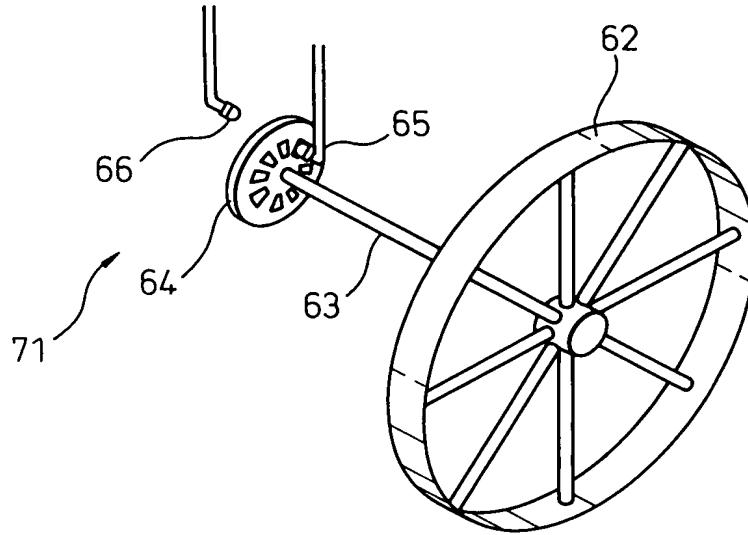


Fig. 9

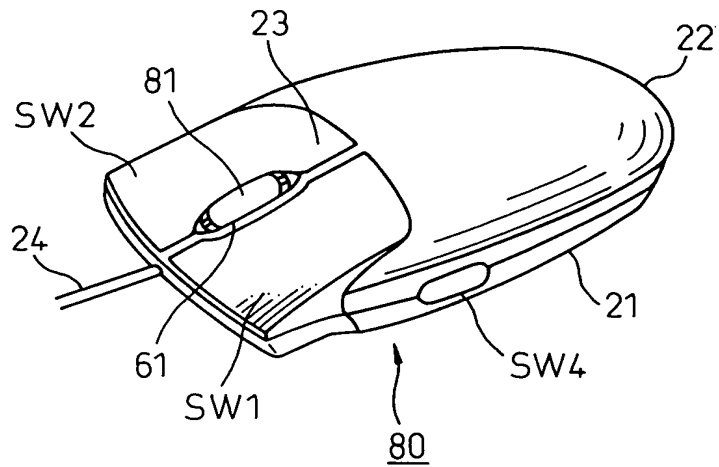


Fig. 10A

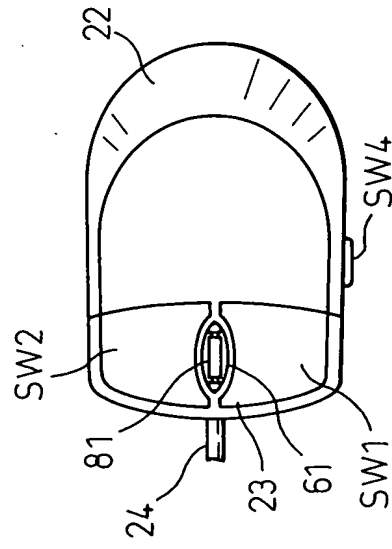


Fig. 10B

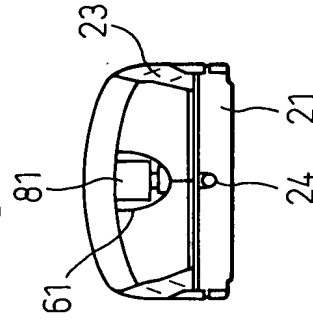


Fig. 10C

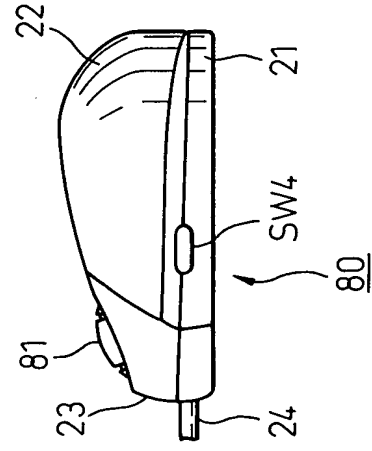


Fig. 10D

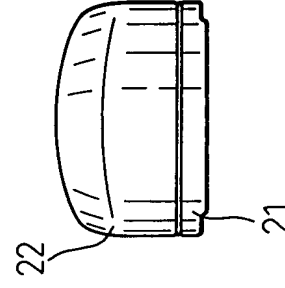


Fig. 12

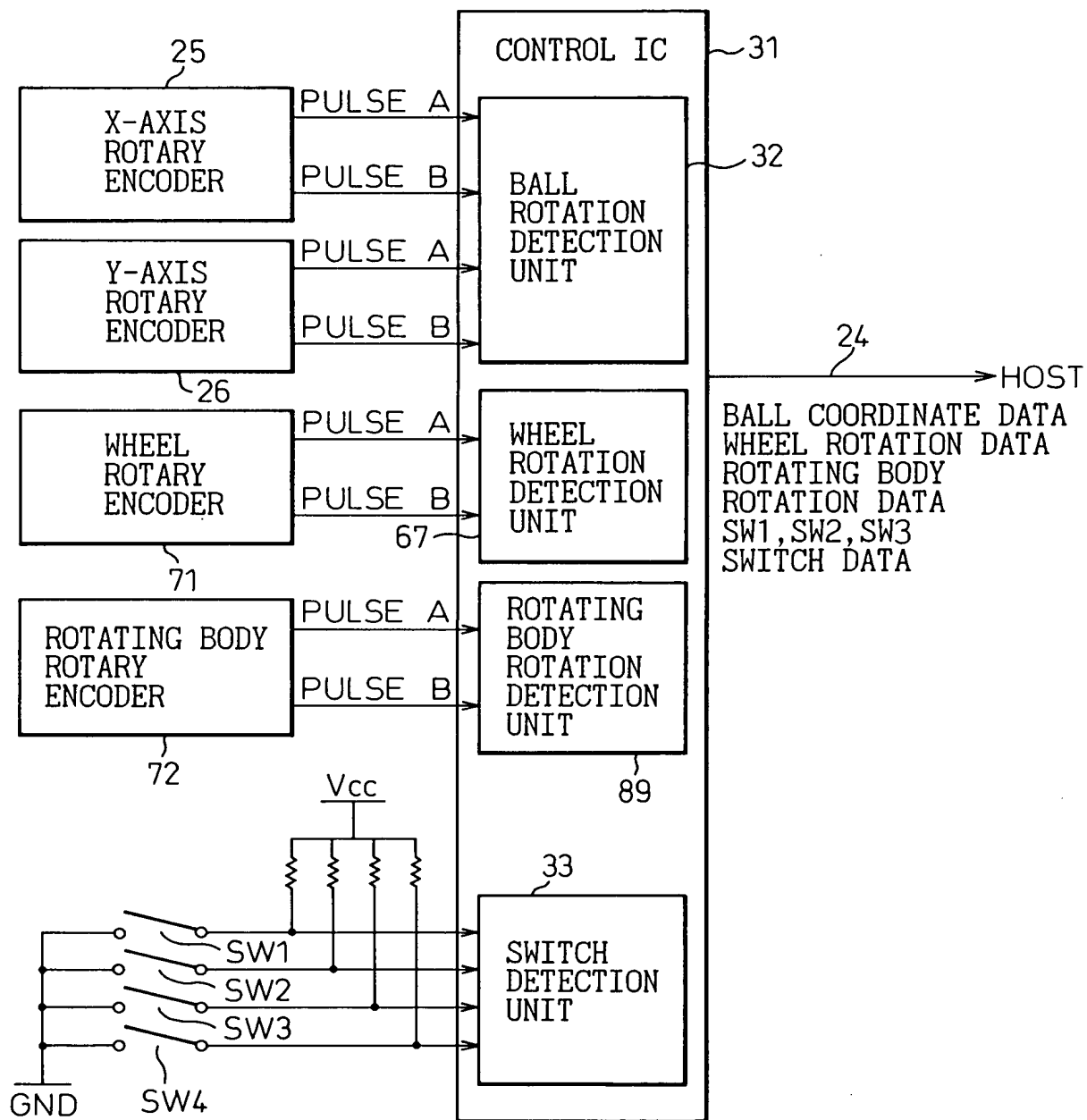


Fig. 14

	FIRST BYTE	SECOND BYTE	THIRD BYTE	FOURTH BYTE	FIFTH BYTE
SW4 OFF NORMAL OUTPUT DATA	SW1, SW2, SW3 SWITCH DATA	BALL X-DIRECTION ROTATION DATA	BALL Y-DIRECTION ROTATION ENCODER	ROTATING BODY ROTATION DATA	WHEEL ROTATION DATA
SW4 ON OUTPUT DATA WITH SW4 BEING DEPRESSED	SW1, SW2, SW3 SWITCH DATA	ROTATING BODY ROTATION DATA	WHEEL ROTATION DATA	0	0

Fig. 15

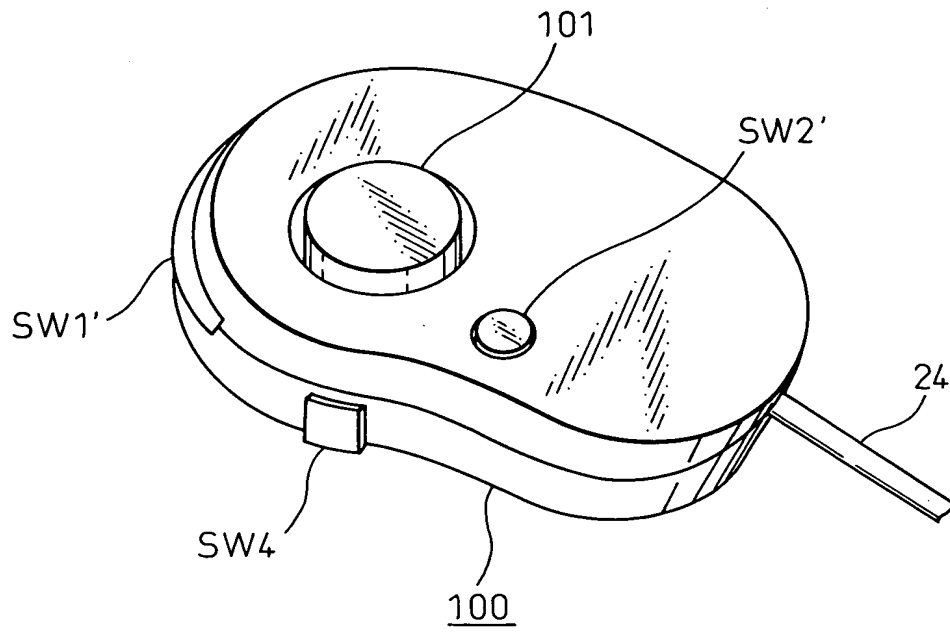


Fig.16

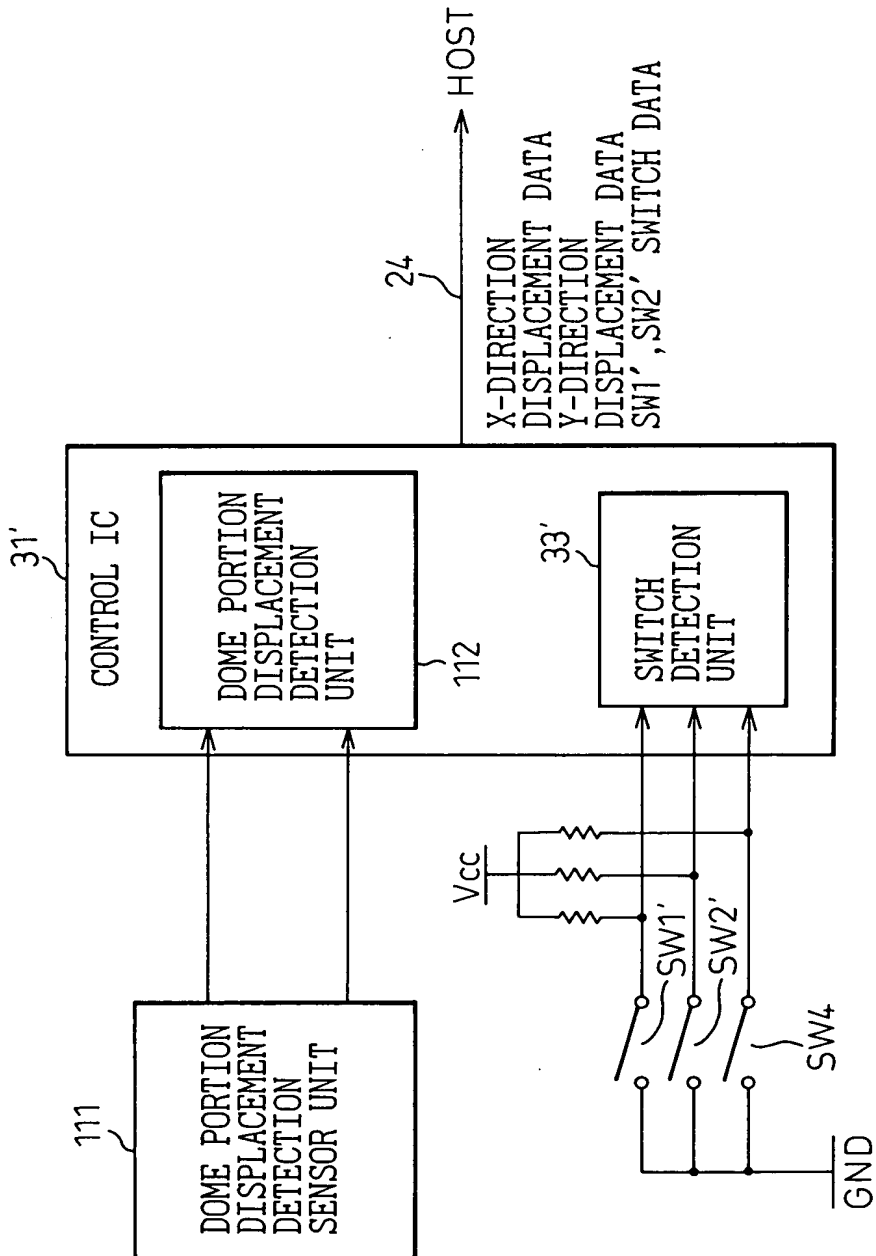


Fig.17

	FIRST BYTE	SECOND BYTE	THIRD BYTE	FOURTH BYTE	FIFTH BYTE
SW4 OFF NORMAL OUTPUT DATA	SW1', SW2', SWITCH DATA	X-DIRECTION DISPLACEMENT DATA	Y-DIRECTION DISPLACEMENT DATA		
SW4 ON OUTPUT DATA WITH SW4 BEING DEPRESSED	SW1', SW2', SWITCH DATA	0	0	X-DIRECTION DISPLACEMENT DATA	Y-DIRECTION DISPLACEMENT DATA